Hurricane Katrina Debris Model

Landfall Plus **12** Hours

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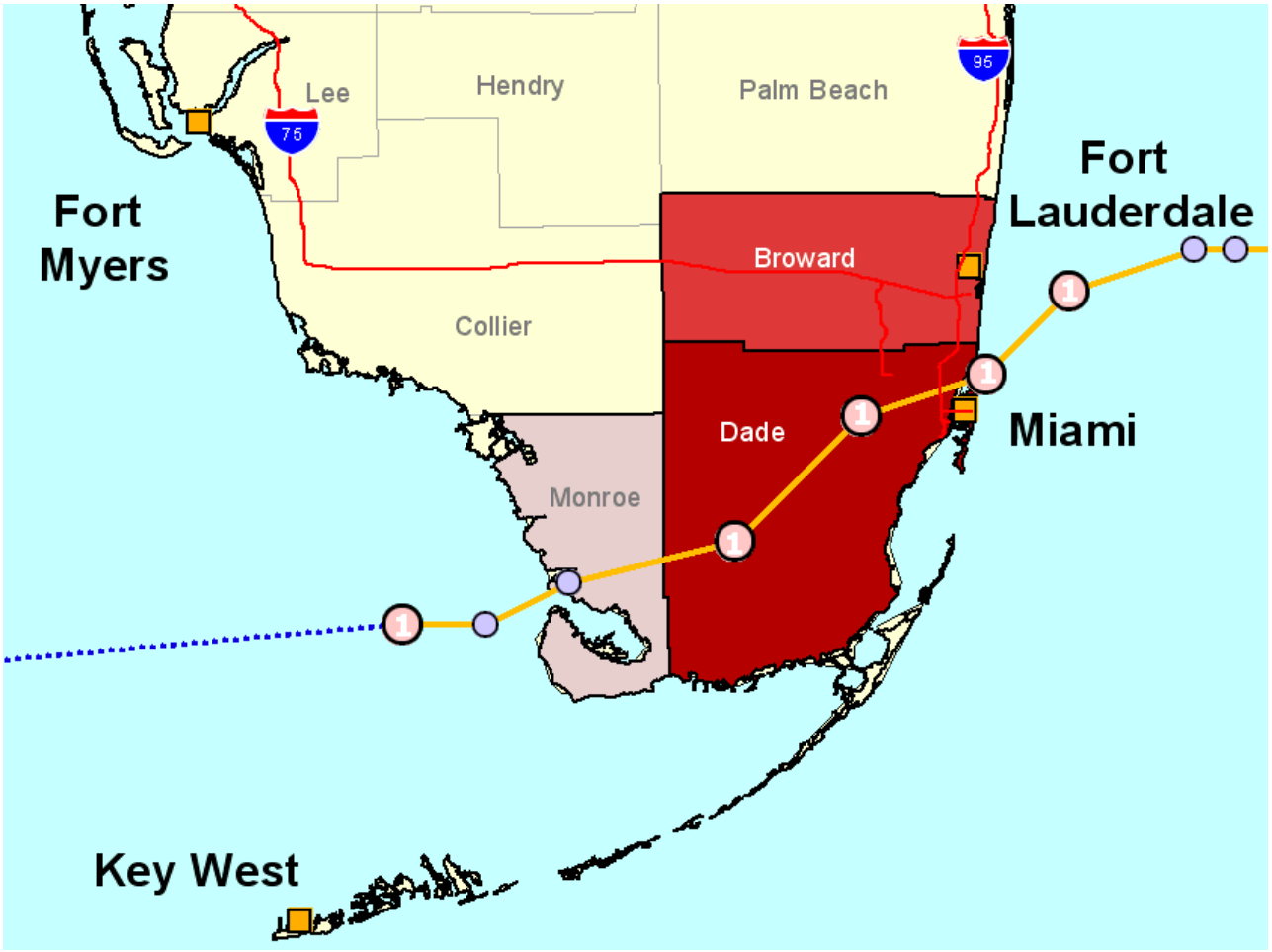

Most Probable Landfall Debris Model Results

Florida – 3,025,000 yd^3

Model results per county on following page

This model is based on a Category 1 storm making landfall in near proximity to North Miami, FL.

Information provided on this page displays a Category 1 storm making landfall near North Miami, FL. These projections are based on information from the NHC ***(0500 EDT 08/26/2005)*** forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Katrina Debris Model

Generated By:
Terry Siemsen, LRL 0730 EDT 08/26/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Katrina Debris Model

Landfall Plus **12** Hours

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STATE	COUNTY	YARDS
Florida		
	Broward	827,000
	Dade	2,197,000
	Monroe	1,000
TOTAL		3,025,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

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Hurricane Katrina Debris Model

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Sources:
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LRL-DEBRIS

Hurricane Katrina Ice Model

Landfall Plus 12 Hours

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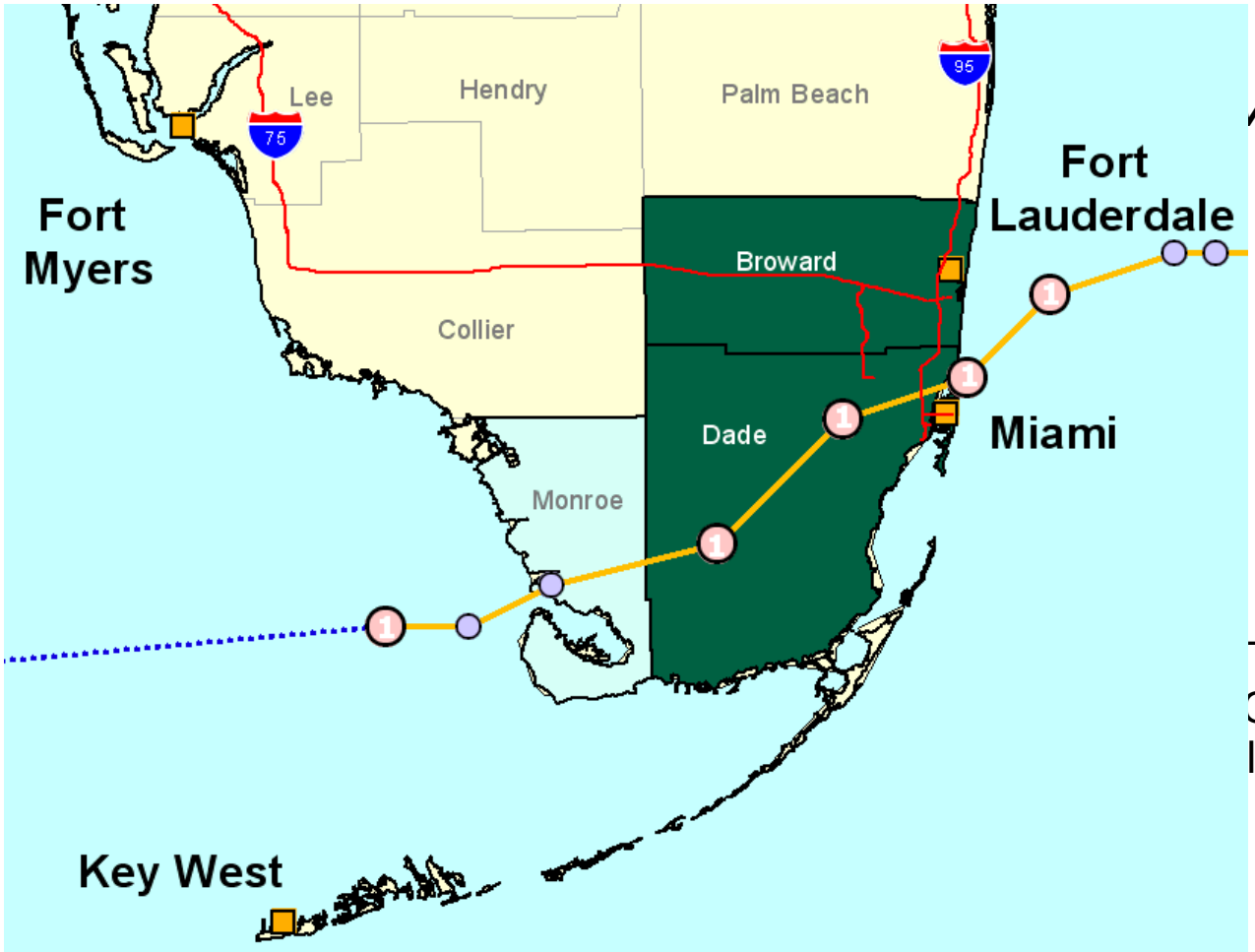

Most Probable Landfall Ice Model Results

Florida –
50 Truckloads Day One
100 Truckloads Day Two
109 Truckloads Day Three

Model results per county on following page

This model is based on a Category 1 storm making landfall in near proximity to North Miami, FL.

Information provided on this page displays a Category 1 storm making landfall near North Miami, FL. These projections are based on information from the NHC ***(0500 EDT 08/26/2005)*** forecast. The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers	**Hurricane Katrina Ice Model**
Generated By: Terry Siemsen, LRL 0730 EDT 08/26/2005	
Sources: HURREVAC LRL-DEBRIS	Page 3 of 10

Hurricane Katrina Ice Model

Landfall Plus **12** Hours

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Ice/Water Commodities - Trucks/Distribution Lanes Ramp-up (Number of Trucks Each Commodity and Lanes Anticipated - end of each day)						
				Commodity Trucks	Within Hurricane Force Winds	
	Day One (25%)*	Day Two (50%)*	Day Three (100%)*	Day 1-3 Total	Population	Households
NHC Track						
Dade	38	75	82	195	2,042,000	711,000
Broward	12	25	27	64	677,000	272,000
Monroe	0	0	0	0	1,000	> 1,000
Florida - Total	**50**	**100**	**109**	**259**	**2,720,000**	**984,000**

Key assumption is that establishment of distribution lanes will be the limiting factor.

* Assumption is that States/locals (FL is the * exception) will have the capability to establish about 25% of needed distribution lanes in the first 24 hours post-landfall, about 50% of needed distribution lanes in the first 48 hours after landfall, and all needed lanes by 72 hours post landfall. Florida, due to past experience, estimates they can establish up to 50 distribution lanes per day.

** **Assumption for Katrina** - Assumption is that 20 percent of the resident population will require ice/water due to power outages in areas experiencing hurricane force winds

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 20% of the resident population affected by Katrina will have power outage in this area will cause a need for ice.

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US Army Corps of Engineers

Hurricane Katrina Ice Model

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Sources:
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LRL-DEBRIS

Hurricane Katrina Water Model

Landfall Plus **12** Hours

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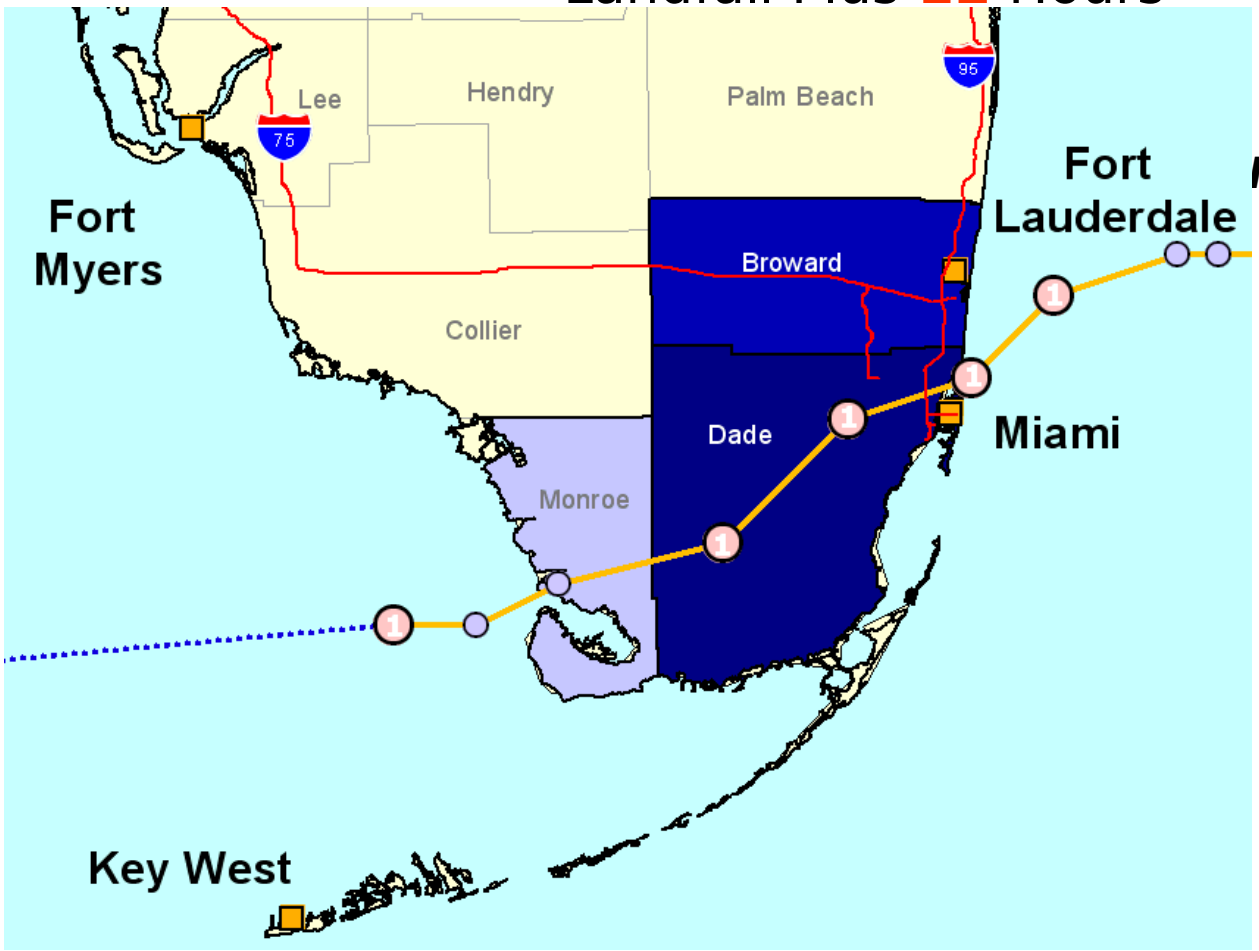

Most Probable Landfall Water Model Results

Florida –
50 Truckloads Day One
100 Truckloads Day Two
109 Truckloads Day Three

Model results per county on following page

This model is based on a Category 1 storm making landfall in near proximity to North Miami, FL.

Information provided on this page displays a Category 1 storm making landfall near North Miami, FL. These projections are based on information from the NHC ***(0500 EDT 08/26/2005)*** forecast. The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Katrina Water Model

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LRL-DEBRIS

Hurricane Katrina Water Model

Landfall Plus **12** Hours

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	Ice/Water Commodities - Trucks/Distribution Lanes Ramp-up (Number of Trucks Each Commodity and Lanes Anticipated - end of each day)					
				Commodity Trucks	Within Hurricane Force Winds	
	Day One (25%)*	Day Two (50%)*	Day Three (100%)*	Day 1-3 Total	Population	Households
NHC Track						
Dade	38	75	82	195	2,042,000	711,000
Broward	12	25	27	64	677,000	272,000
Monroe	0	0	0	0	1,000	> 1,000
Florida - Total	**50**	**100**	**109**	**259**	**2,720,000**	**984,000**

Key assumption is that establishment of distribution lanes will be the limiting factor.

* Assumption is that States/locals (FL is the * exception) will have the capability to establish about 25% of needed distribution lanes in the first 24 hours post-landfall, about 50% of needed distribution lanes in the first 48 hours after landfall, and all needed lanes by 72 hours post landfall. Florida, due to past experience, estimates they can establish up to 50 distribution lanes per day.

** **Assumption for Katrina** - Assumption is that 20 percent of the resident population will require ice/water due to power outages in areas experiencing hurricane force winds

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 20% of the resident population affected by Katrina will have power outage in this area will cause a need for water.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Katrina Water Model

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Terry Siemsen, LRL 0730 EDT 08/26/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Katrina Population Model

Landfall Plus 12 Hours

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Most Probable Landfall Population Model Results

Florida – 2,720,000 persons

Model results per county on following page

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Information provided on this page displays a Category 1 storm making landfall near North Miami, FL. These projections are based on information from the NHC ***(0500 EDT 08/26/2005)*** forecast. The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Katrina Population Model

Generated By:
Terry Siemsen, LRL 0730 EDT 08/26/2005

Sources:
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LRL-DEBRIS

Hurricane Katrina Population Model

Landfall Plus 12 Hours

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State	County	Population per County
Florida		
	Broward	677,000
	Dade	2,042,000
	Monroe	1,000
TOTAL		2,720,000

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Katrina Households Model

Landfall Plus **12** Hours

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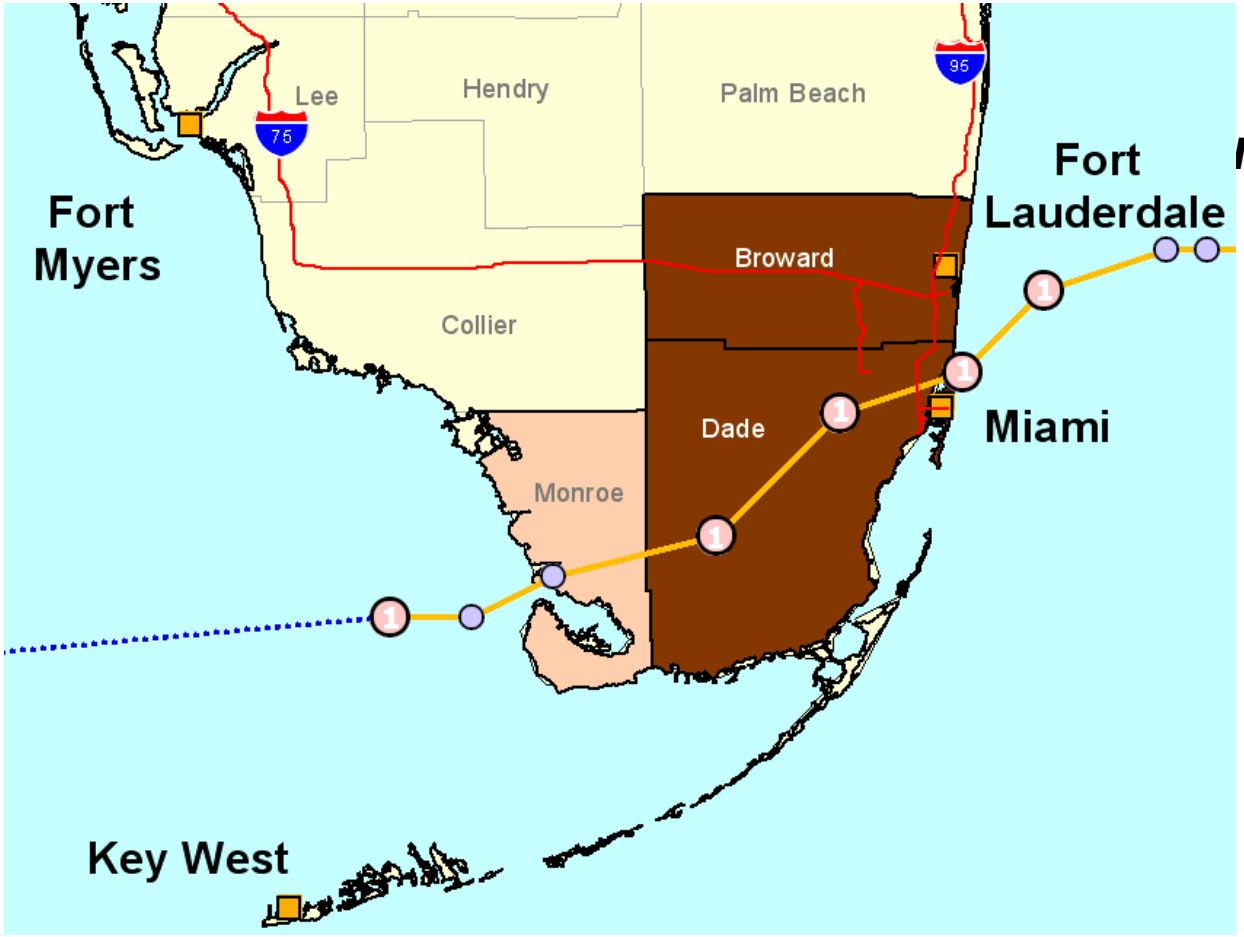

Most Probable Landfall Households Model Results

Florida – 984,000 households

Model results per county on following page

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Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Katrina Households Model

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Sources:
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LRL-DEBRIS

Hurricane Katrina Households Model

Landfall Plus **12** Hours

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State	County	Households per County
Florida		
	Broward	272,000
	Dade	711,000
	Monroe	1,000
TOTAL		984,000

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

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Hurricane Katrina Households Model

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